

**SECRET**

12 February 1959

MEMORANDUM FOR: Director, PIC

SUBJECT: Additional Information re Trip  
to Rochester, New York,  
4 - 6 February 1959

1. This is an elaboration of the trip report submitted in collaboration with [redacted].

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2. [redacted] of Bausch and Lomb stated that 150 power is as high as they can go on the stereoscope by changing eyepieces and objectives. In order to achieve 350/450/600 power a new instrument must be built in order to focus properly. The reason given was that at 600 power one is observing  $2\frac{1}{2}$  wave lengths of light.

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3. (a) [redacted] stated that using the two-stage rectifier will be more satisfactory than going through two separate steps and that the vibration problems will be no greater than those experienced in using a large copy camera.

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(b) Bausch and Lomb suggested that when the two-stage rectifier is to be set up and calibrated in Rochester that we send a man for a period of several weeks to become familiar with the set-up procedures. This will probably be some time in September 1959.

(c) Major Anderson of SAC was very positive in stating that the prototype goes to him. Not knowing just what the agreements were I said nothing and neither did Bausch and Lomb. If this is not true, then something should be done immediately in order that we are assured of receiving the prototype.

(d) The rectifier lens mounts will have a movement of plus or minus one-half inch; thus, any other lenses may be substituted which have a focal length of 35.56 cm plus or minus one-half cm. This holds the lens designer to plus or minus  $1\frac{1}{2}$  per cent, quite a close tolerance.

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4. (a) An idea which we will try as an experiment in microscopy was picked up. Namely, that a positive be printed on two pieces of film which are in registration emulsion to emulsion. The two positives would then be placed in registration after developing beneath the microscope and edge enhancement should be achieved.

(b) Since Ultra-Violet light enhances resolution, the possibility of purchasing complete quartz optics for a microscope was discussed with [redacted] at Bausch and Lomb; the cost for one set would be [redacted]. This is a field that should be explored. Perhaps [redacted] would supply quartz optics. [redacted] was mentioned as having done work in this field. When dealing with UV light, extreme care must be taken to prevent injury to the eyes. Glasses which are shielded from the side give sufficient protection.

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5. [redacted] in discussing the proposal for the PI cell, desires further discussion and would like to perform a lab set up prior to making a proposal. His reasons for this are:

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(a) He thinks the projector lens should agree with the reduced focal length in order to give true apparent stereo.

(b) He is afraid that in the projection of minicards which only have one-half negative format that the center of perspective will be false, causing terrain to tilt or warp.

There are methods by which both of these problems could be solved. For the above reasons, a conference is recommended.

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**Distribution:**

Orig & 1 - Addressee

1 - [redacted]

2 - Dir/PIC Files

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Dir/PIC [redacted]

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9 February 1959

Mr. Valentine Van Keuren  
U. S. Naval Photographic Interpretation Center  
Suitland, Maryland

Dear Mr. Van Keuren:

The loan by NPIC of the Mann comparator has greatly facilitated operations in this office during the period we were selecting and acquiring our own instruments. Now that we have similar equipment of our own in operation, we are returning the Mann comparator to NPIC.

I sincerely thank you for your assistance in our time of need, and if the occasion arises we shall be most willing to cooperate with you in like manner.

Gratefully yours,

Arthur C. Lundahl